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is given in the second column, and the names of the discoverers in the third:—

Star.	Observed Range.	Observed by
<i>o Tauri</i>	— 15 to — 24 ^{km}	MOORE.
<i>f Tauri</i>	+ 9 + 27	MOORE.
<i>η Camelopardalis</i>	+ 22 — 40	MOORE.
<i>A Boötis</i>	— 11 — 40	MOORE.
<i>β Coronæ</i>	— 15 — 33	MOORE.
<i>ξ Cygni</i>	— 19.6 — 24.1	CAMPBELL.

W. W. CAMPBELL,
J. H. MOORE.

TWO STARS WHOSE RADIAL VELOCITIES ARE VARIABLE.

Professor WRIGHT, formerly in charge of the D. O. Mills Expedition to the Southern Hemisphere, has found from their variable velocities that the following stars are spectroscopic binaries:—

α Carinæ, with observed speed lying between + 3.3^{km} and + 17.4^{km} per second.

ι Gruis, with observed speed lying between — 2.3^{km} and — 18.8^{km} per second.

The photographs upon which these discoveries were based were taken at Santiago, Chile, by Messrs. WRIGHT and PALMER in 1904-1905, and by Dr. CURTIS in 1906-1907.

W. W. CAMPBELL.

NOTE ON THE PUBLICATIONS OF THE LICK OBSERVATORY.

In the past years six quarto bound volumes of the *Publications* of the Lick Observatory have been printed and distributed to our correspondents.

Volume VII of the *Publications* will contain articles written by members of the Berkeley Astronomical Department. Parts 1, 2, and 3, relating to a short method of determining orbits, were printed in 1902. Only a few copies were mailed, to those who were especially interested in the subject, and the remainder of the edition was held with the expectation that the succeeding parts of the volume would be published soon and be included in the bound volume. Delay in completing the volume makes it desirable that these parts should be distributed unbound in the near future, following the completion of Parts 4 and 5, now ready to go to press.

Volume VIII of the *Publications*, to contain photographs of nebulae and star clusters secured by the late Director KEELER and by Dr. PERRINE, has been in preparation for three years past. In common with the experience of others, difficulties have been encountered in securing satisfactory reproductions of the photographs. It has been found necessary to compromise between pictorial effects and strict scientific values, and a fair rate of progress has been made during the past year. It is hoped that means will be found in the near future to make several complete sets of positives on glass of these photographs for deposit with leading scientific societies in various centers of population, in order to make them available to all investigators who desire to study them in detail.

Volume IX of the *Publications* relates to the work of the D. O. Mills Expedition to the Southern Hemisphere. Parts I, 2, and 3 have just been mailed to our correspondents. They include an account of the organization and history of the expedition by Director CAMPBELL, and a description of the instruments and methods by Acting-Astronomer WILLIAM H. WRIGHT, in charge of the expedition. The spectrograms secured by the expedition will have been measured and reduced in the course of a few months, and it is planned to publish the results for the 145 stars included in the programme as promptly as possible.

Volume X of the *Publications* is more than half through the press. It contains the results of meridian-circle observations by Astronomer R. H. TUCKER. The bound volume will be mailed before the end of the present year.

It is the intention to send out all completed volumes in bound form.

W. W. CAMPBELL.

Mt. HAMILTON, September 23, 1907.

A FIREPROOF BUILDING ON MT. HAMILTON.

The construction of the half of a fireproof building is under way at the present time. It is not expected that the second half of the building will be constructed before the summer of 1909. The first half will contain, on the first floor, storage vaults for the valuable and extensive collection of observatory photographs, together with the records and computations for all the observations, visual as well as photographic, and such valuable smaller instruments as are not in daily use. The